

ABSTRACT OF THE DISCLOSURE

An omniazimuthal visual system includes: an optical system capable of obtaining an image of 360° view field area therearound and capable of central projection transformation for the image; an imaging section for converting the image obtained through the optical system into image data; an image transformation section for transforming the image data into display data; a display section for displaying a transformed image based on the display data from the image transformation section; and a display control section for controlling the transformed image to be displayed on the display section, wherein the image transformation section includes at least one buffer memory for temporarily storing the image data and the display data, an arithmetic/logic circuit for performing coordinate transformation when the image data is transformed into the display data, a lookup table of a trigonometric function for use in the arithmetic/logic circuit, and a CPU for controlling the at least one buffer memory, the arithmetic/logic circuit, and the lookup table.

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